

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Harry A. ATWATER, Jr. et al.

Title:

WAFER BONDED VIRTUAL SUBSTRATE AND METHOD FOR FORMING THE SAME

Appl. No.:

10/761,918

Filing Date:

1/20/2004

Examiner:

Duy-Vu DEO

Art Unit:

1765

Confirmation

4108

Number:

TERMINAL DISCLAIMER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Your Petitioner, California Institute of Technology, having its principal place of business at 1200 East California Boulevard, Pasadena, California 91125, represents that it is the owner of the entire right, title, and interest in and to U.S. Patent Application Serial No. 10/761,918, filed 1/20/2004, which is a continuation of U.S. Patent Application No. 10/125,133, filed 4/17/2002, by virtue of an Assignment filed and recorded on 5/15/2002, on Reel/Frame 012893/0624, in the United States Patent and Trademark Office, a copy of which is attached hereto as APPENDIX A.

Further, your Petitioner represents that it is the owner of U.S. Patent No. 7,019,339, which issued on U.S. Patent Application No. 10/125,133, filed 4/17/2002, by virtue of the same Assignment. 08/14/2006 HALI11 00000104 10761918

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Your Petitioner, California Institute of Technology, hereby disclaims the terminal part of the term of any patent granted on the above identified patent application which would extend beyond the full statutory term, as shortened by any terminal disclaimer, of U.S. Patent 7,019,339, and hereby agrees that any patent so granted on the above identified patent application shall be enforceable only for and during such period that the legal title to U.S. Patent 7,019,339 shall be the same as the legal title to any patent granted on the above identified patent application, this agreement to run with any patent granted on the above identified patent application and to be binding upon the grantee, its successors or assigns.

In making the above disclaimer, Petitioner does not disclaim any terminal part of any patent granted on the above identified patent application, prior to the full statutory term of U.S. Patent 7,019,339 as defined in 35 U.S.C. §§154-156 and 173, in the event that U.S. Patent 7,019,339 expires for failure to pay a maintenance fee, is held unenforceable or is found invalid in a final judgment by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR §1.321(a), has all claims canceled by a reexamination certificate or as a result of an interference proceeding, or is otherwise not deemed to provide the rights conveyed by 35 USC §154, prior to the full statutory term of U.S. Patent 7,019,339 as defined in 35 USC §§154-156 and 173, except for the separation of legal title stated above. Further, Petitioner does not disclaim any terminal part of a patent granted on the above identified patent application that would extend beyond the present termination of U.S. Patent 7,019,339, in the event that such present term is extended by virtue of compliance with the conditions for term extension of any present or future patent term extension provisions of the patent law, including but not limited to 35 U.S.C. §§155, 155A or 156, and without waiving Petitioner's right to extend the term of a patent granted on the above identified patent application to the extent provided by law.

The undersigned, being the Attorney of Record for the above identified patent application, and duly authorized to act on behalf of Petitioner, certifies that he has reviewed the Assignment attached as APPENDIX A, and to the best of his knowledge and belief, legal title to the above identified patent application and U.S. Patent 7,019,339 rests with Petitioners, California Institute of Technology. The undersigned declares that all statements made herein of his own knowledge are true and that all statements made on information and

belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-identified application or any patent issuing therefrom.

Respectfully submitted,

Date <u>8 ((0</u>9

FOLEY & LARDNER LLP Customer Number: 22428 Telephone: (202) 945-6090

Facsimile: (202) 672-5399

Leon Radomsky

Attorney for Applicant Registration No. 43,445





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Chief Information Officer Washington, DC 20231 www.uspto.gov

JULY 17, 2002

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MYERS, DAWES & ANDRAS LLP DANIEL L. DAWES 19900 MACARTHUR BOULEVARD SUITE 1150 IRVINE, C.A. 92612



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/15/2002

REEL/FRAME: 012893/0624

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

ATWATER, HARRY A., JR.

DOC DATE: 04/17/2002

ASSIGNOR:

ZAHLER, JAMES M.

DOC DATE: 04/17/2002

ASSIGNEE:

CALIFORNIA INSTITUTE OF TECHNOLOGY 1200 EAST CALIFORNIA BOULEVARD PASADENA, CALIFORNIA 91125

SERIAL NUMBER: 10125133

FILING DATE: 04/17/2002

PATENT NUMBER:

ISSUE DATE:

SEDLEY PYNE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

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FORM PTO-1595 (Mcdified) (Rev. 03-01) OMB No. 0651-0027 (exp.5/31/2002) P08/REV03	05-20-2002	SHEET Y	U.S. DEPARTMENT OF COMMER Patent and Trademark Of			
Tab settings → → → ▼	102094935	<u> </u>	▼ . ▼			
To the Honorable Commissioner of Par	tents and Trademarks		ed original documents or copy thereof			
Name of conveying party(ies):	·	2. Name and address	of receiving party(ies):			
Harry A. Atwater, Jr. James M. Zahler		Name: California Institute of Technology				
5.1	5.02	Internal Address: _				
Additional names(s) of conveying party(ies)	☐ Yes ☒ No					
3. Nature of conveyance:						
⊠ Assignment □	Merger	Street Address: 120	0 East California Boulevard			
☐ Security Agreement ☐	Change of Name					
☐ Other		City: Pasadena	State: <u>CA</u> ZIP: <u>91125</u>			
Execution Date: April 17, 2002		Additional name(s) & add	ress(es) attached? Yes No			
 Application number(s) or patent number If this document is being filed together to A. Patent Application No.(s) 		he execution date of the B. Patent No.(s				
10/125,133						
	Additional numbers attache	d? □ Yes 🏿 No				
Name and address of party to whom co concerning document should be mailed	orrespondence :	6. Total number of app	ications and patents involved: 1			
Name: Daniel L. Dawes	·	7. Total fee (37 CFR 3.	41)\$ 40.00			
Internal Address: MYERS, DAWES & ANDRAS LLP		⊠ Enclosed - Any excess or insufficiency should be				
5/17/2002 TDIAZ1 00000191 10125133		credited or debited to deposit account				
L FC:581 40.00 0P		☐ Authorized to be	charged to deposit account			
Street Address: 19900 MacArthur Boulevard		8. Deposit account number:				
Suite 1150		01-1960				
City: Irvine State:	CA ZIP: 92612	(Attach duplicate copy of	f this page if paying by deposit account)			
	DO NOT US	E THIS SPACE				
 Statement and signature. To the best of my knowledge and belief, of the original document. 	the foregoing information	on is true and correct a	•			
Daniel L. Dawes	_ June	Signature	May 7, 2002			
Name of Person Signing Total number of page 1	ages including cover sheet	Signature i, attachments, and documents	ment: Date			

ASSIGNMENT

CIT Case No. 3453

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S),

Harry A. Atwater, Jr.

hereby sells, assigns and transfers to ASSIGNEE, California Institute of Technology, having its statewide administrative offices located at 1200 East California Boulevard, Pasadena, California 91125, and the successors, assigns and legal representatives of the ASSIGNEE, all of its rights, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled:

A Method of Using a Germanium Layer Transfer to Si for Photovoltaic Applications and Heterostructure Made Thereby

and whic	ch is found in				•	
(a)	U.S. provisional application filed herewith and listing the above named persons as inventors					
(b)	U.S. patent application filed herewith and listing the above named persons as inventors					
(c) <u>X</u>	U.S. application serial nos.	10/125,133	, filed on _	04/17/2002		·
(d)	U.S. Patent No.:		, issued	·		-
be obtain conversion all under ASSIGNO entered in ASSIGNO and docu to ASSIG execute a for, obtain which may the execute a for officially k	legal equivalent thereof in a fined for said invention by the on to 35 USC 111(a) or substall International Conventions OR(S) hereby covenants that the opening to said inventional conflict with the opening the ope	e above application itute thereof, and ar for the Protection of the notation assignment, shis assignment; the ASSIGNEE will on and said Letters as same in any interfets legal representations aid application, said carry out the purpinsert into this assignment of Pa	n or any on reissue, findustrial sale, agreed, upon its properties any and its invention on the properties and invents and	reexamination, division reexamination or ex Property; ment or encumbran request, be provided legal equivalents adding a papers, instrument and said Letters Papers. An attorney of refiling date and serial trademarks to issue	d promptly with as may be know relating thereto ents or affidavits atent and said eccord is authorizations.	n-part, extension etters Patent and will be made of all pertinent facts on and accessible and will promptly required to apply quivalents thereof ed and requested application when
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17th da	ay of <u>April</u> , 2002	Ë	larry A. At	water, Jr.	WM /	

ASSIGNMENT

CIT Case No. 3453

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S),

James M. Zahler

hereby sells, assigns and transfers to ASSIGNEE, California Institute of Technology, having its statewide administrative offices located at 1200 East California Boulevard, Pasadena, California 91125, and the successors, assigns and legal representatives of the ASSIGNEE, all of its rights, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled:

A Method of Using a Germanium Layer Transfer to Si for Photovoltaic Applications and Heterostructure Made Thereby

Applications and re	terostructure made mereby
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(b) U.S. patent application filed herewith and listing	the above named persons as inventors
(c) X U.S. application serial nos. 10/125,133	, filed on04/17/2002
(d) U.S. Patent No.:	, issued
be obtained for said invention by the above application conversion to 35 USC 111(a) or substitute thereof, and a all under all International Conventions for the Protection of ASSIGNOR(S) hereby covenants that no assignment, sentered into which would conflict with this assignment; ASSIGNOR(S) further covenants that the ASSIGNEE with and documents relating to said invention and said Letters to ASSIGNOR and will testify as to the same in any interference and deliver to ASSIGNEE or its legal representation, obtain, maintain, issue or enforce said application, say which may be necessary or desirable to carry out the purposition of this assignment to insert into this assignificially known.	II, upon its request, be provided promptly with all pertinent facts a Patent and legal equivalents as may be known and accessible erence, litigation, or proceeding relating thereto and will promptly ive any and all papers, instruments or affidavits required to apply id invention and said Letters Patent and said equivalents thereof coses thereof. An attorney of record is authorized and requested gramment the filing date and serial number of said application when attents and Trademarks to issue said Letters Patent of the United
	Signature of Inventor(s)
executed this	
17 TH day of APRIL, 20 <u>02</u>	